

For the US-market only:

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



WARNING: To prevent fire or electric shock, do not expose this appliance to rain or moisture.



This symbol indicates that a dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



The A/V 7000 is very flexible and easy to use. However, in order to function properly it must be hooked up and programmed in accordance with the instructions in this Setting-up guide. Keep the Setting-up guide for future use – e.g. if you wish to make changes to your setup.

See the A/V 7000 User's guide (also enclosed) for detailed operating instructions.

We recommend that you also read the enclosed safety instructions before setting up your system ready for use.

Your A/V 7000 operates on 120 volts, 60 Hz (normal household current) and has a polarized plug. Because one blade of the plug is wider than the other, the plug fits in the wall outlet only one way. Do not defeat the safety feature of this plug. If you need an extension, use a polarized cord.

Caution: To prevent electric shock do not use the polarized plug on the A/V 7000 with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure.

Complete all the connections in your setup before connecting any appliance to the AC outlet.

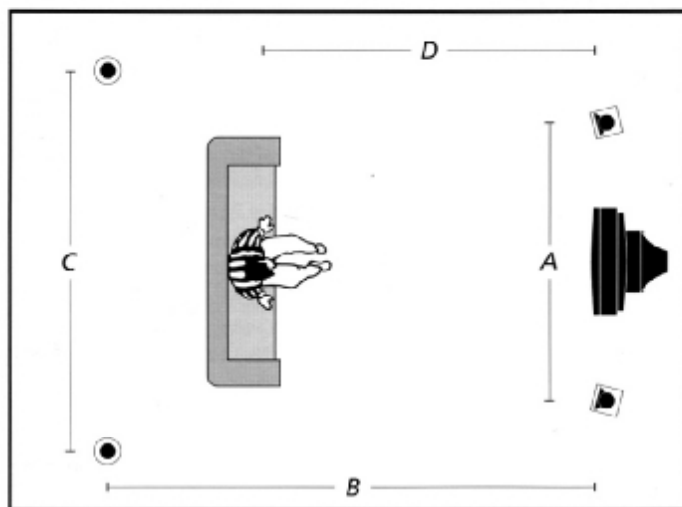
Note to cable-TV installer:

This reminder is provided to call your attention to Article 820-22 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

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The shown distances between the loudspeakers are the optimal ranges when using an ordinary direct view TV-set (up to 40"), but deviations can be taken account of when calibrating the speaker setup (see "Ready for use..."):

- A: 5'—10' (1.5—3 meters)
- B: 10'—13' (3—4 meters)
- C: 5'—12' (1.5—3.5 meters)
- D: 8'—12' (2.5—3.5 meters)

If your Home Theater is built around a larger screen (projection TV, etc.), the distances should be proportionally larger.

A Home Theater built around the Bang & Olufsen A/V 7000 control center is easy to fit into your living room. In this section you will find advice on how to place the speakers in your setup.

If you choose to conceal the products in your setup (e.g. by placing the A/V 7000 in a closet), you can, by plugging in a remote sensor (IR input), still operate the system by remote control.

Room setup

Your ideal position is determined rather by the picture screen than by the sound. Your position in relation to the loudspeakers is not very critical. The surround sound experience will be noticeable as long as you stay within the area between the speakers.

The picture screen (ordinary direct view TV-set or projection TV, etc.) is ideally placed against a wall, or in a corner, with the front speakers, left and right, on each side in a nearly symmetric position.

It is essential for the sound experience in a surround sound setup that the center speaker is placed on-axis with (or at least close to) the picture screen. But powerful magnetic influence from the speaker units can affect the color purity of the picture screen. Special precautions should be implemented to shield out this phenomenon! We suggest that you place a small speaker on the floor beneath the screen.

The rear speakers are best placed to the sides behind – or in line with – your favourite listening position. Do not place them forward of your listening position, though. There is no real demand for a symmetric placement here.

The placement of a subwoofer, if you have opted for one in your A/V 7000 set-up, is not critical. Just make sure to place it forward of your listening position.

Room setup – examples

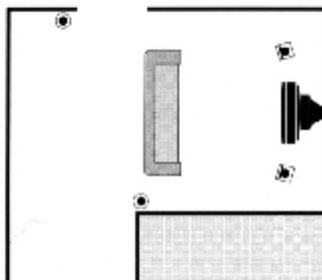
The front and rear set of speakers must not necessarily be placed in the corners of the room.

The examples on this page serve to show that you are not restricted to a square, symmetric setup.

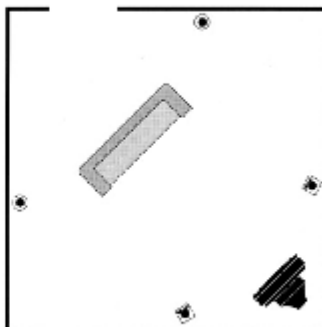
Setup in a long, narrow room with a surround sound entertainment zone in one end. The two rear speakers are placed halfway down the long sides. In this way the room is not fully occupied by the setup.



Setup in an L-shaped room. The two rear speakers are placed asymmetrically and must therefore be calibrated accordingly (see "Ready for use...").



Setup where the center speaker and the picture screen is placed in a corner and the two front speakers along the joining walls. Because the front speakers are closer to you than the center speaker, they must be calibrated accordingly (see "Ready for use...").



The socket panel is here pictured from above – as if you were standing in front of the A/V 7000.



To gain access to the sockets, lift up the hinged grille at the rear.

In this section you will find a brief description of the use of each socket on the A/V 7000. For specific information about each connection, see the section "Connections".



IR OUTPUT — 1/2/3/4

The four sockets are for connection of the enclosed low power IR transmitters which will be necessary for the transfer of converted Beolink 1000 remote control signals to non-Bang & Olufsen video equipment.

The numbered outputs are dedicated for the following video devices:

- 1 TV
- 2 VCR
- 3 CDV
- 4 Controllable cable net decoder/ front end

VIDEO OUT — V-TAPE

Output socket for the video signal (CVBS – Composite Video Broadcasting Signal) to a non-Bang & Olufsen Video Cassette Recorder.

VIDEO OUT — TV

Output socket for the video signal (CVBS) to a non-Bang & Olufsen TV set, etc.

VIDEO IN — V-TAPE

Input socket for the video signal (CVBS) from a non-Bang & Olufsen Video Cassette Recorder.

VIDEO IN — CDV

Input socket for the video signal (CVBS) from a Laser Disc Player.

VIDEO IN — TV

Input socket for the video signal (CVBS) from a non-Bang & Olufsen TV set, etc.

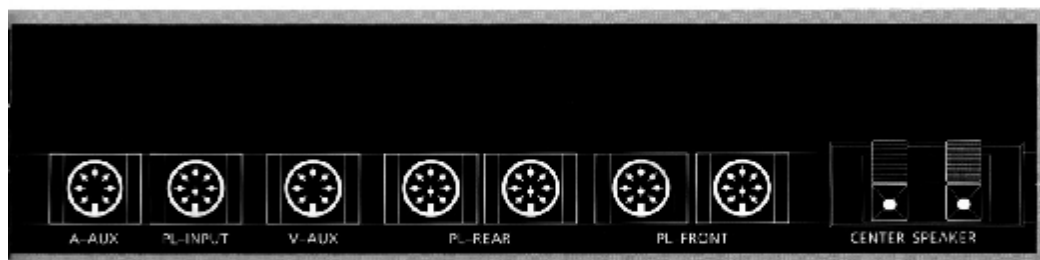
SUB. OUT (L/R)

Non-filtered output sockets for the connection of a subwoofer unit (optional) – left and right channel respectively.

Use either a subwoofer with adjustable crossover network or an external filter unit to ensure the correct frequency response.

CDV (L/R)

Input sockets for the audio signal from a Laser Disc Player (CDV) – left and right channel respectively.

**V-TAPE (L/R)**

Input sockets for the audio signal from a non-Bang & Olufsen Video Cassette Recorder (VCR) – left and right channel respectively.

AUX (L/R)

Audio input sockets for any auxiliary equipment you may choose to connect to your system – left and right channel respectively (in setups including a Bang & Olufsen Video System 5500, connect such equipment directly to either the video system or the audio system).

To select this input, press SHIFT, RADIO on the Beolink 1000.

IR-INPUT

Jack-socket for connection of an IR-receiver (optional), e.g. the VX Sensor. Used if you want to place your A/V 7000 control center where it cannot be reached by the remote control. When plugged in, the internal IR receiver (A/V 7000) is automatically disabled.

A-AUX

Socket for connection of your Bang & Olufsen audio system.

PL-INPUT

Power Link connection from your Bang & Olufsen audio system.

This connection is necessary to ensure power up of the A/V 7000 when switching on the audio system using its own front key – and to ensure that the speakers are muted when using headphones.

V-AUX

Socket for connection of a Bang & Olufsen video system (i.e. the Beovision MX 5500 and the Beocord VX 5000).

PL-REAR

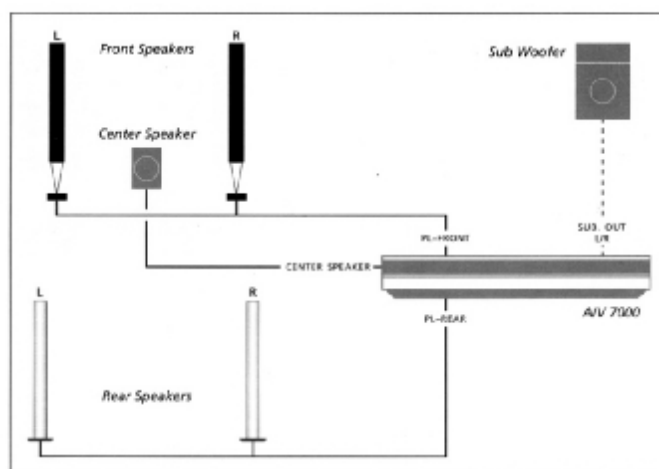
The two Power Link sockets are used for connecting the rear loudspeakers in a surround sound setup, e.g. a pair of Beolab 6000 active speakers.

PL-FRONT

The two Power Link sockets are used for connecting the front loudspeakers, e.g. a pair of Beolab 8000 active speakers.

CENTER SPEAKER

The two spring-loaded terminals (red and black) are used for connecting the center speaker in a surround-sound setup.



This diagram outlines the necessary connections concerning all the speakers in a surround sound setup. As indicated, there is an option for connecting a sub-woofer (left and right channels).

The front and rear sets of speakers must be of the Bang & Olufsen range of active speakers (with Power Link connection). However, you are not restricted to the pictured speaker models – please refer to the table of loudspeakers in the section "Ready for use..."

In this section you will find the information needed in order to connect all the units in your system to the A/V 7100.

Connecting the loudspeakers

Using the cables enclosed with the loudspeakers, you must make the following connections (longer cables and adaptors are available from your Bang & Olufsen dealer – if necessary):

- Connect the center speaker to the two spring-loaded terminals (red and black) marked CENTER SPEAKER. Connect the coded wire (marked with a stripe) to the red terminal.
- Connect the two front speakers to the sockets marked PL – FRONT.
- If you are setting up a complete surround sound system, connect the two rear speakers to the sockets marked PL – REAR.

You may choose to loop the signals through from speaker to speaker, as mentioned in the guide for your active Bang & Olufsen speakers, or you may connect one speaker to each of the two sockets.

Remember to set the L • R • LINE switch on the front and rear speakers to L and R (left and right channel), respectively.

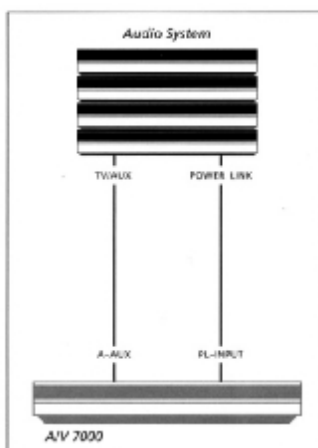
Complete all the connections in your setup before connecting any appliance to the AC outlet.

Connecting a Bang & Olufsen audio system

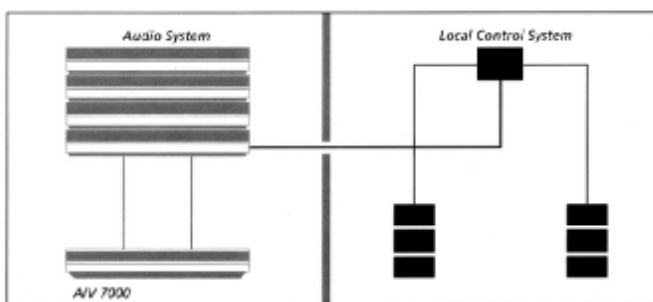
The audio system in your setup must be from the Bang & Olufsen range provided with Power Link speaker connections. Set up the audio system as described in its own *Setting-up guide*.

The following connections are necessary to connect the audio system to the A/V 7000:

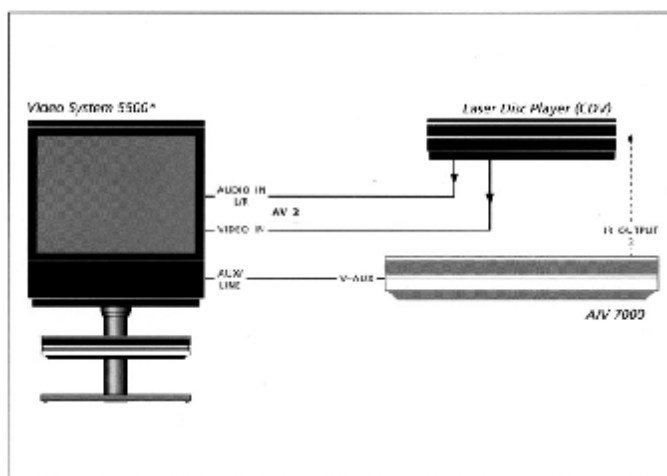
- **Audio Aux Link connection**
Connect one of the plugs to the socket marked TV/AUX on the Beomaster and the second plug to the socket marked A - AUX on the A/V 7000.
- **Power Link connection**
Connect one plug to one of the sockets marked POWER LINK on the Beomaster and the second plug to the socket marked PL - INPUT on the A/V 7000.



This diagram outlines the necessary connections between the A/V 7000 and the audio system (we assume that you have already set up the speakers as previously described). See the next pages on how to connect the video system.



Connecting a Bang & Olufsen Local Control System to your audio system will enable you to distribute the sound from the audio system to other rooms in your house.



In this diagram, we assume that you have already set up the speakers and the audio system as previously described.

If, as shown here, you have a Laser Disc Player in your system, it must be connected as described in the Setting-up guide for the Video System 5500. As you can see, we have put one of the low power IR transmitters into use.

Connecting a Bang & Olufsen Video System 5500

Set up the video system as described in the Setting-up guide enclosed with the system*.

Using an Audio Aux Link cable, connect the video system to the A/V 7000. Insert one plug into the socket marked AUX/LINE on the Beovision 5500, and insert the second plug into the socket marked V - AUX on the A/V 7000.

Using the low power IR transmitters

In order to enable remote control of non-Bang & Olufsen video products with a Beolink 1000, as described in the User's guide for the A/V 7000, you will have to hook up a low power IR transmitter (enclosed) to each device you want to control.

The four outputs marked IR - OUTPUT[†] are dedicated for the following video devices:

- 1: TV
- 2: VCR
- 3: CDV
- 4: Cable net decoder/front end

When installing the transmitters follow the instruction in the package. However, if you wish to be able to use the remote control delivered with a device - which is quite likely - do not entirely mask out its IR-receiver.

* A modification of the Beovision MX 5500 TV set will be required. This modification implies that the TV can only be operated through the A/V 7000 control center (see "List of products").

Stand-by indicator



Once you have made the connections in the entire setup and connected all the units to the mains, the stand-by indicator on the front of the A/V 7000 lights up in red.

In order to adapt the setup to daily use, you will have to do the following: Tune in to and preset your favourite TV and radio stations etc., preset your preferred settings for picture and sound, set the clock and preset the viewing angle (if applicable). These presettings are all described in the *User's guides* for the products.

To make the A/V 7000 'understand' which products you have in your setup (and to convert the IR signals from the Beolink 1000), you will also have to perform a programming of the product combination setup. Likewise, in order to adapt your speaker setup to the room and to suit your personal preferences, you will have to perform a calibration of the speaker balance.



Programming sequence

When making your system ready for use, we suggest the following sequence:

- 1 Document your setup by filling in the form on the next page with the information you will be needing for the programmings.
- 2 Switch on the audio system and make all the presettings/programmings as described in the guides for that system.
- 3 Next, if your Home Theater is set up with a non-Bang & Olufsen video system, program the products in that system.
- 4 Using the Beolink 1000, program the correct option for the audio system and the A/V 7000 (see p. 14).
- 5 Using the Beolink 1000, program the product combination setup (see p. 14).
- 6 Next, if your Home Theater is set up with a Bang & Olufsen Video System SS00, program the products as described in the *Setting up guide* enclosed with that system.
In the *User's guide* for the A/V 7000 you can see how to operate the video system menus with a Beolink 1000.
- 7 Using the Beolink 1000, calibrate your speaker setup (see p. 15).
- 8 Finish the setting-up by reading the A/V 7000 *User's guide* to get an overview of all the possibilities in your new system.

A/V setup

Audio system Option No.:

A/V 7000 Option No.:

Product combination setup

TV set Code No.: TV

Video Cassette recorder Code No.: V. IAPB

Cable TV front end Code No.: CATV

Laser Disc Player Code No.: CDV

Speaker Calibration

Speakers setup (Type A/B*):

Before you start programming your system, we suggest that you fill in this form with the information you will need for programming (see the "Product list").

Please note! Even if you do not have a product of a certain category (e.g. no CDV) connected to your A/V 7000, you must still program a code number (= 00).

***Loudspeakers**

When calibrating the speaker balance (see "Ready for Use..."), you are prompted to select front speaker set TYPE A or TYPE B (A refers to Dolby Normal, and B refers to Dolby Wide).

This setting is dependent on your choice of center speaker:

- When TYPE A is selected, more bass is directed towards the left and right channels than to the center channel (i.e. if you have opted for a small center speaker unit with less bass reproduction, and a pair of Beolab Penta/Beolab 8000 as the front setup).
- When TYPE B is selected more bass is directed towards the center channel than to the left and right channels (i.e. if you have chosen a center speaker unit with a better bass reproduction, and perhaps a pair of Beolab 4500 as the front setup).

If you have a subwoofer, which overall will yield better bass performance, always select TYPE A.

REAR SPEAKER SETUP	FRONT SPEAKER SETUP			
	Beolab Penta	Beolab 8000	Beolab 6000	Beolab 4500
Beolab Penta	YES	NO	NO	NO
Beolab 8000	YES	YES	NO	NO
Beolab 6000	YES	YES	YES	YES
Beolab 4500	YES	YES	YES	YES

Chart showing the recommended combinations of front and rear speaker setups.

Programming the A/V setup



Press to reprogram the audio system



Press to reprogram the A/V 7000

The A/V 7000 and the audio system both contain an IR receiver, which will react on the control signals from the Beolink 1000. Therefore, when both systems are placed in one room you must disable the IR receiver in the audio system by reprogramming it to *Option 0*.

The factory setting for the A/V 7000 is *Option 2* and for the audio system *Option 1*.

This reprogramming is done with the Beolink 1000 and with both systems switched to stand-by.

The A/V 7000 must be set to *Option 2*.

Programming the product combination setup



Press to call up the product combination setup mode



Press to jump forth and back in the procedure



Press to key in the code numbers through



Press to accept and store

This programming is necessary in order for the A/V 7000 to 'know' which products have been connected to it. Please refer to the product list on page 16—17 for the correct code numbers to use for each product.

NOTE! Even if you do not have a product of a certain category connected to your A/V 7000 (e.g. no CDV), you must still key in a code number (= 00).

This programming is done with the Beolink 1000 and the system set to stand-by.

- 1 Press MENU, 0, 1 to gain access to the product combination setup mode.
- 2 The display on the A/V 7000 front now shows TV 00.
Key in the two-digit code number for the type of TV in your setup.
Press PLAY to accept.
- 3 The display now shows V.TAPE 00.
Key in the VCR code no.*
Press PLAY to accept.
- 4 The display now shows CATV 00.
Key in the cable code no.*
Press PLAY to accept.
- 5 The display now shows CDV 00.
Key in the CDV code no.
Press PLAY to accept and store the product combination setup.

*If your setup includes the Beovision MX 5500, by accepting the code number TV 01, you will not be prompted for the VCR and the CATV code numbers. They will automatically be set to VCR 01 and CATV 00.

Calibrating speaker balance

When calibrating speaker balance, you preset the sound balance between the speakers in your particular setup. Once performed, re-calibration will only be needed if you make any major changes to the setup.

The A/V 7000 will, by itself, detect whether a pair of rear speakers is connected or not, and it will only present you with the sound possibilities for your particular setup (*Sound 1 – 5*, see the separate *A/V 7000 User's guide*).

Place yourself in the preferred listening viewing position and switch on the system by selecting a source, e.g. press TV on the Beolink 1000, then:

1 Press SOUND, MENU to gain access to the speaker calibration mode.

The display on the front of the A/V 7000 now shows the setup for the front speakers, e.g. TYPE A.

2 Press $\blacktriangledown$ to toggle between A and B (see p. 17).

3 Press PLAY to accept.

A noise generator is automatically cut in, and the noise is reproduced alternately in the left, in the center and in the right front speaker. Your task is to balance the sound between all three channels.

The display, at first, shows FRONT and then the actual level for the left front speaker, e.g. LEFT +1.

4 Press $\gg$ to switch between left and right front speaker adjustment.

Press $\blacktriangle$ or $\blacktriangledown$ to adjust the sound level in each speaker. The sound level can be set to values from -9 to +9*.

5 Press PLAY to accept.

If the setup includes a pair of rear speakers, they will now be cut in. The noise will be reproduced alternately in all five speakers for balancing the sound between left and right rear speaker, and in relation to the front setup.

The display, at first, shows REAR and then the actual level for the left rear speaker, e.g. LEFT +1.

6 Press $\gg$ to switch between left and right rear speaker adjustment.

Press $\blacktriangle$ or $\blacktriangledown$ to adjust the sound level in each speaker. The sound level can be set to values from -9 to +9*.

7 Press PLAY to accept and store the speaker calibration.

The noise generator is now automatically cut off, and the display will again show the source you selected, e.g. TV.

TYPE	A
FRONT	
LEFT	+1
REAR	
LEFT	+1

Press to call up the speaker calibration mode and start the noise generator

SOUND
MENU

Switches between left and right speaker adjustment

$\gg$

adjusts the speaker sound level

$\blacktriangle$
 $\blacktriangledown$

Press to jump one step back in the procedure

STOP

Press to accept and proceed to the next step

PLAY

*The maximum number of steps between speakers is limited to 10.

In the following you will find a list of compatible video products valid at the time of printing.

It is our intension to expand the range of compatible products, though. Thus, if you do not find your particular video product in this list, please consult your Bang & Olufsen dealer.

For each type of product, the list states the make, the product name, and (important!) the two-digit code number, which must be used when programming the product combination setup as described in the section "Ready For Use...".

For your convenience we recommend that you leave the programming of code numbers in the A/V 7000 to your dealer.

NOTE! This product list refers to S/W version number 1.12 of the code converter in the A/V 7000.

Make	Name	Code No.
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Direct View CRT Televisions:

Bang & Olufsen*	MX 5500	01
Sony	KV Series	12, 13, 14
Mitsubishi	CS Series	17, 18, 19
RCA	Pro Scan Series	20

Rear Projection Televisions:

Pioneer Elite	Pro Series	25
Sony	KR Series	12, 13, 14
	KPR Series	12, 13, 14
Mitsubishi	V5 Series	17, 18, 19
	CS Series	17, 18, 19

Video Cassette Recorders:

No VCR		00
Bang & Olufsen	VX 5000	01
Sony	SLV Series	10, 11, 12
Mitsubishi	HSU Series	15
	HSU Series, 2 inputs	16
RCA	Pro Scan Series	20

Laser Disc Players:

No CDV		00
Non-controllable CDV		01
Pioneer Elite	CLD Series	20
Sony	MDP Series	10
Marantz	LV Series	25
Denon	LA Series	30
Mitsubishi	MDV Series	15
Yamaha	CDV Series	35

Cable Decoders:

No Decoder		00
Non-controllable decoder		01
Jerrico		13, 14, 15, 16, 17
Oak		20
Sigmac		20
Scientific Atlanta		25, 26, 27
Zenith		10, 11, 12
Tucson		17
Gemini	AD Series	30
	AD 6000	31
General Instruments		32
Hamam		19
Macom		24
Regency		23
Texscan		18
Pioneer		22
Philips		32
Magnavox		32

As new video products occur in the market, we reserve the right to change certain A/V 7000 functions (e.g. pre-programming) without notice!

* In order to function in an A/V 7000 setup the Revision MK 5500 TV set will need to be modified (i.e. installation of a new software and disconnection of the internal speakers).

This new software can be obtained from a Bang & Olufsen dealer – order number: B342505

In the software package you will find the information needed to carry out this modification.

NOTE! This modification is to be done by a qualified technician only!

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials. The terms of the guarantee apply to the country of purchase but will be met by authorized Bang & Olufsen dealers in other countries. The guarantee period applying to the country of purchase takes priority over guarantee periods applying in other countries, even where differences exist.

In order to obtain service under this guarantee, a certificate stating the following information is required:

- Name of product and type number
- Serial number
- Date of purchase
- Guarantee period
- Dealer's or supplier's signature

If you intend to use the product in a country other than that in which it was bought, it may be necessary for you to have the product modified to suit the transmission system, or mains supply etc., used in the country you are moving to. We therefore recommend that you contact your Bang & Olufsen dealer before moving to another country. No costs incurred in this connection will be covered under the terms of the guarantee.

Maintenance

Wipe off dust with a soft, dry cloth to clean the A/V 7000 control center. Any grease stains may be removed using a soft, firmly wrung lint-free cloth, which you have dipped in a solution of lukewarm water containing a few drops of mild detergent, for example a dish washing detergent.

Note!

Never use alcohol or other solvents to clean the A/V 7000.

Environmental information

This Bang & Olufsen product was delivered in a packing made to protect and transport the product safely from the factory to your home.

In the design of our packing we use the most conserving and recyclable materials known today, and we constantly work to reduce any negative side effects our packing materials may have on the environment.

We observe any progress with great interest.

Corrugated cardboard Made of at least 45% recycled material. The printing ink contains no heavy metals, and the box is reusable for paper production.

Foamed plastic parts Made without use of injurious inert gasses. Can be recycled or incinerated, liberating carbon dioxide and water. Usable for soil improvement in granular form.

Plastic bags All plastic parts are free of PVC and can be recycled or incinerated, liberating carbon dioxide and water.

Batteries We urge you to show consideration when changing the batteries in your remote control terminal. Used-up batteries should be disposed of and kept separately.